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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/519,727	03/03/2000	Kok-Wui Cheong	STFUP014	6703
7590 11/26/2003			EXAMINER	
CRAWFORD			CORRIELUS, JEAN B	
1270 NORTHLAND DRIVE SUITE390 ST PAUL, MN 55120			ART UNIT	PAPER NUMBER
			2631	

DATE MAILED: 11/26/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
•	09/519,727	CHEONG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jean B Corrielus	2631				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 1	1) Responsive to communication(s) filed on 10 October 2003.					
2a) ☐ This action is FINAL . 2b) ☑ T	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 7-24 is/are allowed. 6) Claim(s) 1 and 3-6 is/are rejected. 7) Claim(s) 2 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the col 11) The oath or declaration is objected to by the	accepted or b) objected to by the objected to by the objected to by the the drawing(s) be held in abeyance. Some of the drawing(s) is considerable or better the drawing(s) is considerable or better the drawing(s) is considerable or better the drawing(s).	ee 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bu. * See the attached detailed Office action for a 13) Acknowledgment is made of a claim for dom since a specific reference was included in the 37 CFR 1.78. a) The translation of the foreign language 14) Acknowledgment is made of a claim for dom reference was included in the first sentence of	nents have been received. The second of the certified copies not received in Application (PCT Rule 17.2(a)). The second of the certified copies not receive to priority under 35 U.S.C. § 119 of first sentence of the specification of the provisional application has been received to priority under 35 U.S.C. §§ 120 of the provisional application has been received to priority under 35 U.S.C. §§ 120 of the prio	ation No ved in this National Stage ved. (e) (to a provisional application) or in an Application Data Sheet. eceived. 20 and/or 121 since a specific				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No.) 5) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)				

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DETAILED ACTION

Response to Amendment

1. The Affidavit filed on 10/10/03 under 37 CFR 1.131 is sufficient to overcome the Cioffi reference.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Claessen US patent No. 4,715,064.

Claessen discloses a method and apparatus fig. 3, comprising the steps of receiving an input signal on line 33 that includes a primary data signal and a superimposed cross-talk signal see abstract, lines 13-18; multiplier 41 used to generate probable crosstalk signal note that such estimate is generated iteratively because of the fact that the received signal is fedback to drive the multiplier 41 to generate a new estimate accordingly, the multiplier generates inherently a plurality of estimates subtract or 43 is used to remove the crosstalk from the composite signal see

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abstract, lines 18-26; note that in order to remove the crosstalk from the signal, the estimated crosstalk has to converge toward the superimposed crosstalk.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Claessen in view of applicant's background of the invention..

Claessen discloses the invention substantially as claimed by does not teach that the signal is a multicarrier signal such as discrete multitone. However, configure a system for processing a multicarrier signal such a DMT is old and well established in the art. For instance, Applicant 's background of the invention teaches at page 2, lines 4-6 the processing of a multicarrier signal. Given that fact it would have been obvious to one skill in the art to configure a system for processing a multicarrier signal such as DMT in order to facilitate transmission of information at higher rate over the twisted-pair phone lines.

As per claim 5, applicant's background of the invention further teaches that the HPNA is a well source of crosstalk. It would have been obvious to one skill in the art to use a HPNA device in order to take advantage of existing twisted pair wiring phone wiring for networking.

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As er claim 6, it would have been obvious to one skill in the art to configure the system in such a way to receive VDSL signal in order to carry high speed communication over the twisted pair phone lines.

Response to Arguments

6. Applicant's arguments with respect to claims 1 and 3-6 have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

- 7. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Claims 7-2 Aare allowed.
- 9. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

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(703) 872-9314

(for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is (703) 305-4023. The examiner can normally be reached on Monday-Thursday from 7:00 A.M. to 5:30 P.M.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Primary Examiner

TC-2600

11-22-03